RAYTHEON
TECHNICAL INFORMATION SERVICE

Technical Information

CK7995

SUBMINIATURE SHARP CUTOFF PENTODE

The CK7995 is a heater–cathode type, high transconductance, sharp cutoff pentode of subminiature construction. The design features of low noise, low interelectrode capacitances and high transconductance and high transconductance to plate current ratio make it suitable for service as a wide band RF or IF amplifier. It is designed for dependable operation in equipment with low plate supply voltages. The flexible leads may be soldered, or welded directly to the terminals of circuit components without the use of sockets. Standard 8–Pin subminiature sockets may be used by cutting the leads to a suitable length.

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (pf) (with External Shield)

Grid to Plate	.03 Max.
Input	8.0
Output	3.5

RATINGS – ABSOLUTE MAXIMUM VALUES:

Heater Voltage (ac or dc)	6.3 ± 10% Volts
Plate Voltage	200 Volts
Grid #2 Voltage	165 Volts
Plate Dissipation	1.6 Watts
Grid #2 Dissipation	.6 Watts
Cathode Current	30 ma
Heater–Cathode Voltage	100 Volts
Bulb Temperature	220 °C

CHARACTERISTICS AND TYPICAL OPERATION:

Heater Voltage	6.3 Volts
Heater Current	0.3 Amps
Plate Voltage	150 Volts
Grid #2 Voltage	150 Volts
Cathode Bias Resistance	160 Ohms
Grid #1 Voltage	0 Volts
Plate Current	8.0 mA
Grid #2 Current	2.0 mA
Plate Resistance	.1 Meg
Transconductance	13,000 umhos
Ec1 for Ib = 10 uA	−6 Volts

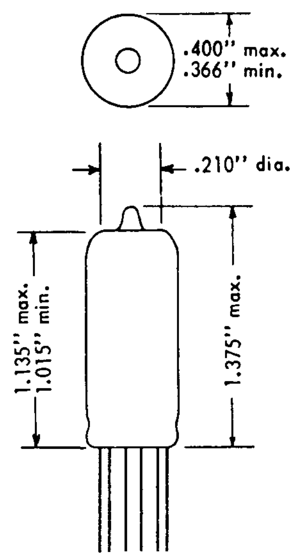
OBJECTIVE DATA

These data identify a particular developmental tube design and the type designation or the descriptive data may be subject to change or abandonment.

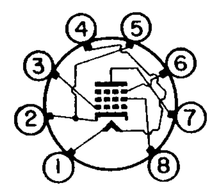
MECHANICAL DATA

ENVELOPE .... T3 Glass
OUTLINE .... JEDEC (3–1)
BASE... 8–Pin Submin. Button (0.017" Tinned Flexible Leads Length=1.5" Min.)
CATHODE .. Coated Unipotential
MOUNTING POSITION ..... Any

PHYSICAL DIMENSIONS



BASING



TERMINAL CONNECTIONS

Lead 1	Heater
Lead 2	Cathode
Lead 3	Grid Number 1
Lead 4	Heater
Lead 5	Cathode
Lead 6	Grid Number 3
Lead 7	Plate
Lead 8	Grid Number 2

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